Materials List for:
**Stem-cell Based Engineered Immunity Against HIV Infection in the Humanized Mouse Model**

Anjie Zhen¹, Valerie Rezek¹, Cindy Youn¹, Jonathan Rick¹, Brianna Lam¹, Nelson Chang¹, Jerome Zack¹, Masakazu Kamata¹, Scott Kitchen¹
¹David Geffen School of Medicine, University of California, Los Angeles

Correspondence to: Anjie Zhen at azhen@mednet.ucla.edu, Scott Kitchen at skitchen@ucla.edu

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<table>
<thead>
<tr>
<th>Name</th>
<th>Company</th>
<th>Catalog Number</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD34 microbead kit</td>
<td>Miltenyi</td>
<td>130-046-702</td>
<td>For sorting human CD34+ progenitor cells</td>
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<tr>
<td>Bambanker</td>
<td>Wako</td>
<td>302-14681</td>
<td>For freezing cells</td>
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<tr>
<td>QiAamp Viral RNA kit</td>
<td>Qiagen</td>
<td>52904</td>
<td>For measuring viral load in the serum</td>
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<tr>
<td>MACSQuant Flow Cytometer</td>
<td>Miltenyi</td>
<td></td>
<td>For flow analysis</td>
</tr>
<tr>
<td>BD LSRFortessa™</td>
<td>BD biosciences</td>
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<td>For flow analysis</td>
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<tr>
<td>Hyaluronidase</td>
<td>Sigma</td>
<td>H6254-500MG</td>
<td>For tissue digestion</td>
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<td>Deoxyribonuclease I</td>
<td>Worthington</td>
<td>LS002006</td>
<td>for tissue digestion</td>
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<tr>
<td>Collagenase</td>
<td>Life technology</td>
<td>17104-019</td>
<td>for tissue digestion</td>
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<tr>
<td>CFX Real time PCR detection system</td>
<td>Biorad</td>
<td></td>
<td>For measuring viral load and gene expression</td>
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<tr>
<td>Mice, strain NOD.Cg-Prkdcscid Il2rgtm1Wjl/SzJ</td>
<td>The Jackson Laboratory</td>
<td>5557</td>
<td>For constructing the humanized mice</td>
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<td>Penicillin Streptomycin (Pen Strep)</td>
<td>Thermo Fisher Scientific</td>
<td>10378016</td>
<td>For culturing cells</td>
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<td>Piperacillin/tazobactam</td>
<td>Pfizer</td>
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<td>Anti-fungal</td>
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<td>Amphotericin B (Fungizone antymycotic)</td>
<td>Thermo Fisher Scientific</td>
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<td>Anti-fungal</td>
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<td>Autoclip Wound Clips, 9 mm - 1,000 units</td>
<td>Becton Dickinson</td>
<td>427631</td>
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<td>Sterile Poly-Reinforced Aurora Surgical Gowns, 30 per case</td>
<td>Medline</td>
<td>DYNJP2707</td>
<td>For surgery</td>
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<td>Sutures, 4-0, vicryl</td>
<td>Owens and Minor</td>
<td>23000J304H</td>
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<td>Alcohol prep pads</td>
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<td>For surgery</td>
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<td>Gloves, surgical, 6 1/2</td>
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<td>Yssel's Serum-Free T-Cell Medium</td>
<td>Gemini Bio-products</td>
<td>400-102</td>
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<td>Human Serum Albumin</td>
<td>Sigma-Aldrich</td>
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